	Application No.	Applicant(s)	
	10/579,619	LEE, SUNG-YOUNG	
Notice of Allowability	Examiner	Art Unit	
· · · · · · · · · · · · · · · · · · ·	Vinod D. Patel	3742	
The MAILING DATE of this communication appeal of the communication appeal claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT ROT THE OFFICE OF UPON POSITION BY THE PROPERTY OF THE PRO	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included nication will be mailed in due course.	
1. X This communication is responsive to 6/21/07.			
2. 🔀 The allowed claim(s) is/are <u>1-10</u> .			
3. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date	e been received. e been received in Applicatio cuments have been received of this communication to file MENT of this application. hitted. Note the attached EXA es reason(s) why the oath or st be submitted. son's Patent Drawing Review	n No I in this national stage application from a reply complying with the requirement. MINER'S AMENDMENT or NOTICE declaration is deficient.	nts
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in (6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	the header according to 37 CF sit of BIOLOGICAL MATE	R 1.121(d). :RIAL must be submitted. Note the	
Attachment(s)			
1. ☑ Notice of References Cited (PTO-892)	5. Notice of In	formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413), Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/21/07 	7. ☐ Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material Output Description: Output	9.	Statement of Reasons for Allowance TU BA HOANG ISORY PATENT EXAMINER	

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 6/21/07 has been entered.

Allowable Subject Matter

- 2. Claims 1-10 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Although the prior art is replete with teachings of a PTC element module of a preheater for vehicles, the prior art does not teach to one of ordinary skill in the art, and in combination with the other limitations of the independent claims, a PTC element comprising a positive terminal composed of two sheets, an upper sheet of which has a fastening hole and upward bended ribs formed at opposite edges of the fastening hole, a ring shaped insert insulator inserted between ribs, a ptc element inserted into an inside of the insert insulator, a bottom surface of which is in contact with a lower sheet of the positive terminal. The instant application is deemed to be directed to an non-obvious improvement over the inventions patented in Pat. Nos. 6472645, 5256857, 5854471 and 5562844. The improvement comprises a positive terminal composed of two sheets, an upper sheet of which has a fastening hole and upward bended ribs

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formed at opposite edges of the fastening hole, a ring shaped insert insulator inserted between ribs. Listed prior art discloses separate insulator with hole to hold PTC element. In the examiner's opinion, it would not have been obvious to a person of ordinary skill in the art to eliminate insulator with hole and replacing it a positive terminal composed of two sheets, an upper sheet of which has a fastening hole and upward bended ribs formed at opposite edges of the fastening hole, a ring shaped insert insulator inserted between ribs.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vinod D. Patel whose telephone number is 571-272-4785. The examiner can normally be reached on 7.30 A.M. TO 4.00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu B. Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VP

Vinod Patel
Patent Examiner
Art Unit 3742

SUPERVISORY PATENT EXAMINER